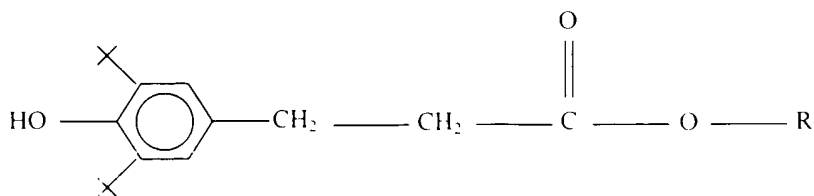


AMENDMENTS TO THE CLAIMS

In the Claims:

Please cancel Claims 1, 12, and 23 - 26. Please amend Claims 2 - 10, 17, 19, 20, and 22; and add new Claims 33 - 58 as follows:

1. (Cancelled)
2. (Currently Amended) An antioxidant system of ~~Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein the hindered phenols comprise:
BHT butylated hydroxy toluene; or
~~and~~ 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester; or
mixtures or combinations thereof.
3. (Currently Amended) An antioxidant system of ~~Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein the hindered phenols comprise BHT butylated hydroxy toluene.
4. (Currently Amended) An antioxidant system of ~~Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein one or more hindered phenols have the general formula:



wherein R is a C₇ to C₉ alkyl group.

5. (Currently Amended) An antioxidant system of Claim 4, wherein the antioxidant system further comprises ~~BHT~~ butylated hydroxy toluene.
6. (Currently Amended) An antioxidant system ~~of Claim 1~~ comprising sulfurized isobutylene and one or more hindered phenols wherein the one or more hindered phenols comprise 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester.
7. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant of Claim ~~4~~ 2.
8. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant system of Claim ~~2~~ 3.
9. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant system of Claim ~~3~~ 4.
10. (Currently Amended) Lubricating oil comprising a base oil and the antioxidant system of Claim ~~4~~ 5.
11. (Original) A method of lubricating engines comprising contacting the lubricating oil of Claim 7 with one or more engines.
12. (Cancelled)
13. (Original) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 8.

14. (Original) A method of lubricating engines comprising contacting one or more engines with the lubricating oil of Claim 9.
15. (Original) A method of lubricating engines comprising contacting one or more engines with lubricating oil of Claim 10.
16. (Original) A method of Claim 15 wherein the engine is a natural gas fueled engine.
17. (Currently Amended) Lubricating oil comprising:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

about 0.1 wt. % to about 3 wt. % butylated hydroxy toluene;

and about 0.1 wt. % to about 3 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester.
18. (Original) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 17.

19. (Currently Amended) A method of making the lubricating oil of Claim 17 comprising combining:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

about 0.1 wt. % to about 3 wt. % butylated hydroxy toluene; and

about 0.1 wt. % to about 3 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester in any order.

20. (Currently Amended) Lubricating oil comprising:

a major amount of one or more base oils;

about 1.25 wt. % to about 6 wt. % of one or more dispersants;

about 2 wt. % to about 6 wt. % of one or more detergents;

about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors;

about 0.02 wt. % to about 0.45 wt. % sulfurized isobutylene;

about 0.20 wt. % to about 2.5 wt. % butylated hydroxy toluene; and

about 0.20 wt. % to about 2.5 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester.

21. (Original) A method of lubricating engines comprising contacting one or more engines with the lubricating oil of Claim 20.

22. (Currently Amended) A method of making the lubricating oil of Claim 20 comprising combining:

a major amount of one or more base oils;

about 1.25 wt. % to about 6 wt. % of one or more dispersants;

about 2 wt. % to about 6 wt. % of one or more detergents;

about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors;

about 0.02 wt. % to about 0.45 wt. % sulfurized isobutylene;

about 0.20 wt. % to about 2.5 wt. % butylated hydroxy toluene; and

about 0.20 wt. % to about 2.5 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester in any order.

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Original) Lubricating oil comprising:

about 0.02 wt. % to about 2 wt. % sulfurized isobutylene;

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more of phenates, salicylates
and sulfonates;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors; and
one or more of Group I, II, III and IV base oil.

28. (Original) A method of making the lubricating oil of Claim 27 comprising
blending about 0.02 wt. % to about 2 wt. % sulfurized isobutylene;

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more of phenates, salicylates
and sulfonates;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors; and

one or more of Group I, II, III and IV base oil in any order with agitation
and at a temperature sufficient to blend the components but not high
enough to degrade the components.

29. (Original) A method of lubricating an engine comprising lubricating the engine with the lubricating oil of Claim 27.
30. (Original) Lubricating oil comprising:
- a major amount of one or more base oils;
 - about 1.25 wt. % to about 6 wt. % of one or more dispersants;
 - about 2 wt. % to about 6 wt. % of one or more detergents;
 - about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors; and
 - about 0.04 wt. % to about 1.75 wt. % sulfurized isobutylene.
31. (Original) A method of making the lubricating oil of Claim 30 comprising combining about 1.25 wt. % to about 6 wt. % one or more dispersants;
- about 2 wt. % to about 6 wt. % of one or more detergents;
 - about 0.3 wt. % to about 0.8 wt. % of one or more wear inhibitors; and
 - about 0.04 wt. % to about 1.75 wt. % sulfurized isobutylene
- in any order.
32. (Original) A method of lubricating engines comprising contacting the lubricating oil of Claim 30 with one or more engines.

33. (New) The antioxidant system of Claim 2 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.
34. (New) The antioxidant system of Claim 3 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.
35. (New) The antioxidant system of Claim 4 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.
36. (New) The antioxidant system of Claim 5 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.
37. (New) The antioxidant system of Claim 6 further wherein the concentration ratio of sulfurized isobutylene to hindered phenols is 0.004 to 1.13.
38. (New) The antioxidant system of Claim 2 wherein said system is a natural gas engine oil antioxidant system.
39. (New) The antioxidant system of Claim 3 wherein said system is a natural gas engine oil antioxidant system.
40. (New) The antioxidant system of Claim 4 wherein said system is a natural gas engine oil antioxidant system.
41. (New) The antioxidant system of Claim 5 wherein said system is a natural gas engine oil antioxidant system.
42. (New) The antioxidant system of Claim 6 wherein said system is a natural gas engine oil antioxidant system.

43. (New) Lubricating oil comprising a base oil and the antioxidant of Claim 6.

44. (New) Lubricating oil comprising:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

and about 0.1 wt. % to about 3 wt. % 3,5-di-t-butyl 4-hydroxy phenol propionate, C₇-C₉ alkyl ester.

45. (New) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 44.

46. (New) Lubricating oil comprising:

about 1 wt. % to about 8 wt. % of one or more dispersants;

about 1 wt. % to about 8.5 wt. % of one or more detergents;

about 0.2 wt. % to about 1.5 wt. % of one or more wear inhibitors;

about 0.01 wt. % to about 0.5 wt. % sulfurized isobutylene;

and about 0.1 wt. % to about 3 wt. % butylated hydroxy toluene.

47. (New) A method of lubricating engines comprising lubricating one or more engines with the lubricating oil of Claim 46.
48. (New) The method of Claim 11 wherein the engine is a natural gas fueled engine.
49. (New) The method of Claim 13 wherein the engine is a natural gas fueled engine.
50. (New) The method of Claim 14 wherein the engine is a natural gas fueled engine.
51. (New) The lubricating oil of Claim 17 wherein said lubricating oil is a natural gas engine lubricating oil.
52. (New) The method of Claim 18 wherein said engine is a natural gas fueled engine.
53. (New) The lubricating oil of Claim 20 wherein said lubricating oil is a natural gas engine lubricating oil.
54. (New) The method of Claim 21 wherein said engine is a natural gas fueled engine.
55. (New) The lubricating oil of Claim 27 wherein said lubricating oil is a natural gas engine lubricating oil.

56. (New) The method of Claim 29 wherein said engine is a natural gas fueled engine.
57. (New) The lubricating oil of Claim 30 wherein said lubricating oil is a natural gas engine lubricating oil.
58. (New) The method of Claim 32 wherein said engine is a natural gas fueled engine.
59. (New) The lubricating oil of Claim 7 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.
60. (New) The lubricating oil of Claim 27 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.
61. (New) The lubricating oil of Claim 30 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.
62. (New) The lubricating oil of Claim 44 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.
63. (New) The lubricating oil of Claim 46 wherein said lubricating oil has a total ash content of 0.15 wt. % to 0.6 wt. % as determined by ASTM D874.